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SUGHRUE MION, PLLC				
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EXAMINER				
REYES, MARIELA D				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/767,468

Applicant(s)

HAN, HEE-CHUL

Examiner

Mariela D. Reyes

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SI/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 8th, 2008 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beach et al (International Publication Number WO 01/47238) in view of Schein et al (US Patent 6,002,394).

With respect to independent claim 1:

Beach teaches **checking the electronic program guides and search engine tables contained in broadcast signals received from at least one broadcast company** (Paragraph [0018], discloses that a unit is in contact with a server during which time the current program information is downloaded to the unit), **composing a**

total electronic program guide and search engine tables (Paragraphs [0036]-[0042]), discloses that the information received in the broadcast signals has to be indexed for easier searching), **setting a keyword, the setting of the keyword comprising selecting a name of a program as the keyword** (Paragraph [0018] and Fig.2, disclose the user entering a search term where the search term can be a program title) and **executing a default search engine and displaying search results obtained by the default search engine using the keyword** (Fig. 4, discloses how the search engine is going to be executed and obtaining the results from said search engine).

Beach does not appear to explicitly disclose **receiving broadcast signals; retrieving electronic program guides and search engine tables from the broadcast signals; displaying the total search engine and wherein the search results are a plurality of hyperlinked web pages.**

Schein teaches **receiving broadcast signals;** (Column 7 Lines 2-9) **retrieving electronic program guides and search engine tables from the broadcast signals;** (Column 7 Lines 2-9, discloses receiving electronic program guides and Column 7 Lines 18-20, discloses receiving information that will be used by the user to search program information) **displaying the total search engine** (Column 2 Lines 54-57, discloses that the whole database will be used to display a TV guide to the user) **and wherein the search results are a plurality of hyperlinked web pages.** (Column 2 Lines 24-25, discloses that the user can select and interact with the program information)

It would be obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of the cited references to implement **receiving broadcast**

signals; retrieving electronic program guides and search engine tables from the broadcast signals; displaying the total search engine and wherein the search results are a plurality of hyperlinked web pages because this would provide a ready and efficient method to facilitate an exchange of information. (Schein Column 2 Lines 14-17)

With respect to claim 2:

Beach teaches that **each of the search engine tables is a list of a plurality of search engines which each of the broadcasting companies selects among existing search engines** (Fig. 2 and Paragraph [0019], discloses having various search options available).

With respect to claims 3 and 4:

Beach teaches that **the search engines included in the search engine table are input from a user and registered to a search engine list** (Fig. 5 and Fig.6, disclose that the user can input the search engine that they want to user).

With respect to claim 5:

Beach teaches **receiving the keyword from a user if a program is not being broadcasted and the electronic program guide is not executed** (Fig. 4, Element 44, discloses receiving the keyword from a user where the electronic program guide doesn't need to be executed because the search terms are already indexed in a database).

With respect to claim 6:

Beach teaches **the medium enabling a user to access the hyperlinked web pages according to the user's selection** (Fig. 4, discloses that after searching the user can select one of the possibilities to see more information).

With respect to claim 7:

Beach teaches **the medium displaying all of the search engines shown in the search engine tables in addition to a web page of the search results.** (Fig. 6, discloses that both the search results and the search engines would be displayed together).

With respect to claim 8:

Beach teaches that **if another search engine is selected among the search engine list, search results obtained by the selected search engine using the keyword are displayed** (Fig. 6, discloses that after a search is done you can narrow the search by specifying a new search)

With respect to claim 9:

Beach teaches that **the setting of the keyword comprises selecting a name of a program that is being broadcasted through the medium or that is selected in an electronic program guide, which is being executed as the keyword.** (Fig.4,

discloses that the user can access information of a program that is being broadcasted through the medium).

With respect to claim 10:

Beach teaches that **the medium comprises a digital television receiving advanced television systems committee signal and having access to the internet** (Paragraph [0018], discloses that a client unit is connected to the internet through a server to download the electronic program guides).

With respect to claim 11:

Beach teaches that **the checking comprises checking electronic program guides and search engine tables contained in broadcast signals received from each of a plurality of broadcasting companies** (Paragraph [0018], discloses that that the electronic program guides are received via broadcast signals from the vendors).

With respect to claim 12:

Beach teaches **judging if an electronic magazine program function is called by a user, wherein the checking is performed only if the electronic magazine function is called** (Fig. 2, discloses that the user accesses the menu and that the checking of the database is only done then).

With respect to claim 13:

Beach teaches **separating electronic program guides and search engine tables from the received broadcast signals** (Paragraph [0027], discloses that the program information data is downloaded from the broadcast signals and imported into a database where it will be classified), **removing duplicative search engines from the separated search engine tables** ((Paragraphs [0036]-[0042], discloses that the database is indexed therefore removing duplicate search engines) and **including the separated electronic program guides and search engines, which were not removed, in the total electronic program guide and search engine table** (Paragraphs [0036]-[0042], discloses that after the indexing process the electronic program guides will be complete and without repetition).

With respect to claim 14:

Beach teaches that **the default search engine is set by the medium** (Paragraph [009], discloses that the medium presents a default search engine to the user).

With respect to claim 15:

Beach teaches that **the default engine is set by the user** (Fig. 1, discloses that the user can choose the search engine to be used).

With respect to claim 16:

Schein teaches **the broadcast signals comprise signal streams, and wherein said checking the search engine table comprises separating the search engine table from the signal streams.** (Column 7 Lines 2-9, discloses that the broadcast signal comprises signal streams and that the information is separated from it)

With respect to claim 17:

Schein teaches **the medium enables non-displayed search engines to be selected by the user.** (Column 23 Lines 55-60, discloses the user choosing what search engine is going to be used)

With respect to claim 18:

Schein teaches **when a keyword is received from the user, a web browser of a default search engine is executed, search results based on the keyword are displayed, and a list of search engines provided by the total search engine table is displayed.** (Column 23 Lines 55-60, discloses presenting the search results and the search engines used to obtain them)

Response to Arguments

The following is in response to the arguments filed on August 7th, 2008.

Claim Rejections - 35 USC § 103

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariela D. Reyes whose telephone number is (571) 270-1006. The examiner can normally be reached on M - F 7:30- 5:00 East time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Miranda Le/
Primary Examiner, Art Unit 2167

/M. D. R./
Examiner, Art Unit 2167
August 13, 2008

